

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re U.S. Patent Application of:

INVENTORS: Nelson et al.

SERIAL NO.: 10/

FILED: Herewith

TITLE: "Parallel Fractional Interpolator with Data-Rate Clock Synchronization"

ATTORNEY DOCKET NO.: 907A.0138.U1(US)

ART UNIT:

EXAMINER:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

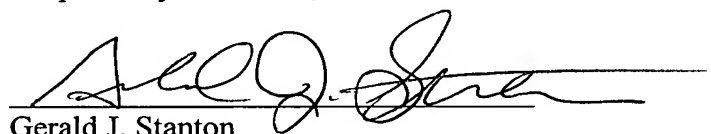
INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to Sections 609 and 707.05(b) of the MPEP and 37 CFR 1.97-1.99, the attached form PTO-1449 lists documents, which may be pertinent to the invention as claimed in the above-identified application. Copies are herewith submitted of the non-US documents.

The citation of these documents should not be construed as a representation that a thorough search has been made, or that other, more pertinent material is not available.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Gerald J. Stanton", is written over a horizontal line.

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**INFORMATION DISCLOSURE  
CITATION FORM FOR  
PATENT APPLICATION  
(FORM PTO-1449)  
(Substitute)**

Docket No.: 907A.0138.U1(US)

Serial No.:

Applicant(s): Nelson et al.

Filing Date: Herewith

Group:

**U.S. PATENT DOCUMENTS**

Examiner Initials	Document Number (Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant	Class	Sub-class
	US-5812608	09-22-1998	Valimaki et al.	375	331
	US-				
	US-				
	US-				
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**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Document Number (Country Code-Number-Kind Code)	Publication Date (MM-DD-YYYY)	Name Of Patentee of Applicant	Translation? Yes/No/n/a
	- -			
	- -			
	- -			
	- -			
	- -			
	- -			

**OTHER DOCUMENTS (Author (Capitalize), Title, Date, Pages, Etc., if known)**

	FREDRIC J. HARRIS, "Multirate Digital Filters for Symbol Timing Synchronization in Software Defined Radios", IEEE Journal on Selected Areas in Communications, Vol. 19, No. 12, December 2001, pp. 2346-2357.
	FLOYD M. GARDNER, "Interpolation in Digital Modems-Part I: Fundamentals", IEEE Transactions on Communications, Vol. 41, No. 3, March 1993, pp. 501-507.
	LARS ERUP, "Interpolation in Digital Modems-Part II: Implementation and Performance", IEEE Transactions on Communications, Vol. 41, No. 6, June 1993, pp. 998-1008.
	GABRIEL WATKINS, "Optimal Farrow Coefficients for Symbol Timing Recovery", IEEE Communications Letters, Vol. 5, No. 9, September 2001, pp. 381-383.
	JUSSI VESMA et al., "The Effects of Quantizing the Fractional Interval in Interpolation Filters", Tampere University of Technology, Finland.
	V. VALIMAKI and T. I. LAAKSO, "Principles of Fractional Delay Filters", IEEE International Conference on Acoustics, Speech, and Signal Processing, Istanbul, Turkey, June 2000, pp. 1-4.

Examiner's Signature:

Date Considered:

Initial if reference was considered, whether or not citation is in conformance with MPEP. Mark through citation if not considered.  
Include a copy of this citation form with your next correspondence to the Applicant(s).